## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/120/045 A
Source: TFWO

Date Processed by STIC:

ENTERED



OW₁ T

RAW SEQUENCE LISTING DATE: 02/02/2005
PATENT APPLICATION: US/10/722,045A TIME: 16:10:49

Input Set : E:\7682108999-2.txt

Output Set: N:\CRF4\02022005\J722045A.raw

```
3 <110> APPLICANT: DeJong, Jan
              Fouchier, Ronaldus
      5
              Van Den Hoogen, Bernadetta
      6
              Osterhaus, Albertus
              Groen, Jan
      9 <120> TITLE OF INVENTION: Virus causing respiratory tract illness in susceptible
mammals
     11 <130> FILE REFERENCE: 7862-108-999
     13 <140> CURRENT APPLICATION NUMBER: 10/722,045A
     14 <141> CURRENT FILING DATE: 2003-11-25
     16 <150> PRIOR APPLICATION NUMBER: PCT/NL02/00040
     17 <151> PRIOR FILING DATE: 2002-01-18
     19 <150> PRIOR APPLICATION NUMBER: EP01200213.5
     20 <151> PRIOR FILING DATE: 2001-01-19
     22 <150> PRIOR APPLICATION NUMBER: EP01203985.5
     23 <151> PRIOR FILING DATE: 2001-10-18
     25 <160> NUMBER OF SEQ ID NOS: 172
     27 <170> SOFTWARE: PatentIn version 3.2
     29 <210> SEQ ID NO: 1
     30 <211> LENGTH: 394
     31 <212> TYPE: PRT
     32 <213> ORGANISM: Human metapneumovirus 00-1
     34 <400> SEQUENCE: 1
     36 Met Ser Leu Gln Gly Ile His Leu Ser Asp Leu Ser Tyr Lys His Ala
                                             10
     40 Ile Leu Lys Glu Ser Gln Tyr Thr Ile Lys Arg Asp Val Gly Thr Thr
                                        25
     44 Thr Ala Val Thr Pro Ser Ser Leu Gln Gln Glu Ile Thr Leu Leu Cys
     45
     48 Gly Glu Ile Leu Tyr Ala Lys His Ala Asp Tyr Lys Tyr Ala Ala Glu
                                55
     52 Ile Gly Ile Gln Tyr Ile Ser Thr Ala Leu Gly Ser Glu Arg Val Gln
                                                 75
     56 Gln Ile Leu Arg Asn Ser Gly Ser Glu Val Gln Val Val Leu Thr Arg
                                             90
     60 Thr Tyr Ser Leu Gly Lys Ile Lys Asn Asn Lys Gly Glu Asp Leu Gln
                    100
                                        105
     64 Met Leu Asp Ile His Gly Val Glu Lys Ser Trp Val Glu Glu Ile Asp
                115
                                    120
                                                         125
     68 Lys Glu Ala Arg Lys Thr Met Ala Thr Leu Leu Lys Glu Ser Ser Gly
                                135
                                                     140
     72 Asn Ile Pro Gln Asn Gln Arg Pro Ser Ala Pro Asp Thr Pro Ile Ile
                            150
                                                155
```

76 Leu Leu Cys Val Gly Ala Leu Ile Phe Thr Lys Leu Ala Ser Thr Ile

RAW SEQUENCE LISTING DATE: 02/02/2005
PATENT APPLICATION: US/10/722,045A TIME: 16:10:49

Input Set : E:\7682108999-2.txt

77					165					170					175	
	21,, 1	<i>it</i> - 1	Cl v	LOU		ጥኮሎ	Thr	V = 1	Ara	Arg	Δl =	Δen	Ara	V=1		Ser
81	31. U	vaı	СТУ	180	GIU	1111	1111	vai	185	Arg	ліа	HSII	nrg	190	пси	JCI
	Asp :	Δla	Len		Ara	Tvr	Pro	Ara		Asp	Tle	Pro	Lvs		Ala	Ara
85	ωp.		195	_,	9	- 1 -		200		110p			205			5
	Ser			Asp	Leu	Phe	Glu		Lvs	Val	Tvr	His		Ser	Leu	Phe
89		210	- ] -				215		-,-		- 1	220	5			
			Tvr	Glv	Lvs	Ala		Glv	Ser	Ser	Ser		Glv	Ser	Lys	Ala
93 2			- 1 -	1	-	230		_			235		-		-	240
96 (	Glu	Ser	Leu	Phe			Ile	Phe	Met	Gln	Ala	Tyr	Gly	Ala	Gly	Gln
97					245					250		-	-		255	
100	Thr	Met	Let	Arg	J Trp	Gly	v Val	. Ile	e Ala	a Arg	, Ser	Ser	Asr	Asr	ı Ile	Met
101				260					265					270		
104	Leu	Gly	His	: Val	. Ser	Val	Glr			ı Lev	Lys	Glr	ı Val	. Thi	Glu	Val
105			275					280					285			
108	Tyr	Asp	Let	ı Val	. Arg	Glu			/ Pro	o Glu	ı Ser	: Gly	Let	ı Leı	ı His	Leu
109		290					295					300				
	_	Gln	Ser	Pro	Lys		-	, Lei	ı Leı	ı Ser			Asr	Cys	Pro	Asn
113			_	•	•	310		_		_	315			- 3		320
	Phe	Ala	Ser	· Val			ı GIŞ	Ası	n Ala			Let	ı GTZ	, TT6		Gly
117		m	<b>n</b>	<b>61</b>	325		D	. 7	. m.	330		n b		. 7.7.	335	
	мет	Tyr	Arg	340		vaı	. Pro	) ASI	34!		і тег	ı Pne	e ser	350		Glu
121	C02	Ф	. 7.1 ~			T 01	. 1	. 61,			. T 170	, Tla	λοτ			Ser
124	Ser	туг	355		s ser	пес	і гу	360		L ASI	груз	, TTG	365		s ser	Ser
	Len	Glv			· Asr	Gli	Gli			1 Ala	Α1=	Gli			ı I.e.ı	. Asn
129	пси	370			. 115 <u>p</u>	OIC	375		, 010			380		, 1110		
	Val			Asr	Ser	Glr			Tvi	r Glu	1					
133			110 [	1101		390			1							
		0> S	EQ I	D NO	): 2											
				H: 3												
138	<21	2> T	YPE:	PRI	:											
139	<21	3> O	RGAN	IISM:	Avi	an p	neun	novi	cus A	<b>A</b>						
				NCE:												
143	Met	Ser	Let	Glu	ı Ser	Ile	e Arc	, Leι	ı Sei	: Asp	Let	ı Glı	ı Tyr	Lys		Ala
144					5					10			_	_	15	
	Ile	Leu	Glu		Ser	Glr	туг	Thi		e Arg	J Arc	J Asp	Val		/ Ala	Thr
148				20	_	_		_	25	_			_	30		~
	Thr	Ala		Thr	Pro	Ser	GIU		ı Gli	ı Pro	Glr	ı Val		Thi	: Lev	Cys
152	~1		35	-	D1		<b>.</b>	40	. m1	- 70	. m	. 01.	45	. 70 ] -	. 7.7 -	C1
	GIA		vaı	. ьег	ı Pne	A L a	_	HIS	Thi	r Asp	) Tyr		PIC	) Ala	i Ald	Glu
156	77-1	50				т1.	55	. mb.	. 7.7.	. T.o.		60 - 11	7 0 0	. 7\~~	Th.	
160		σтλ	мет	. GII	ııyı	70	: ser	. 1111	. Ali	а пес	1 GIS 75	, WTC	. ASL	, vr ć	1111	Gln 80
		Tle	. T.a.r	T.376	. Acn		- G1 t	, 501	- Gl:	ı Vəl		. G1:	, Val	Met	· Thr	Lys
164	11.40	110	- LCC	. Lyc	85	. 501	. UI		. 510	90	. 011		, , ,,,		95	_,5
	Ile	Val	Thr	Lei		Ala	Gli	Glv	z Sei		Arc	Lvs	Arc	Glı		Leu
168				100					105		1	, -1-	=	110		
	Asn	Ile	His			Glv	, Val	. Glv			Asr	Asr	Val			Thr
			_	- 1								-			-	

RAW SEQUENCE LISTING DATE: 02/02/2005
PATENT APPLICATION: US/10/722,045A TIME: 16:10:49

Input Set : E:\7682108999-2.txt

172			115					120		_		_	125		_	
		_	Glu	Ala	Met	Gly		Met	Val	Arg	Glu	_	Val	Gln	Leu	Thr
176		130					135					140				
179	Lys	Asn	Gln	Lys	Pro	Ser	Ala	Leu	Asp	Ala	Pro	Val	Ile	Leu	Leu	Cys
180	145					150					155					160
183	Ile	Gly	Ala	Leu	Ile	Phe	Thr	Lys	Leu	Ala	Ser	Thr	Val	Glu	Val	Gly
184		-			165			_		170					175	_
187	Len	Glu	Thr	Ala	Tle	Ara	Ara	Ala	Ser		Val	Leu	Ser	Asp	Ala	Ile
188				180		9	9		185	9				190		
	Ser	Δra	Tur		Δra	Met	Asn	Tle	Pro	Ara	Tle	Ala	Lvs		Phe	Phe
192	DCI	111 g	195	110	1119	1100	1155	200	110	1119	110	1114	205	DCI	1110	
	C1,1	Lou		Clu	Tvc	Tvc	Val		Tyr	7 ~~	Acn	Lou		Tlo	Glu	Тиг
196	GIU	210	rne	Giu	пÃ2	гу	215	ıyı	ıyı	Arg	ASII	220	rne	116	Giu	ıyı
	<b>61</b>		70.7	T	C1	G		C	m1	C1	C		<b>M</b> -+	C1	C	T
	_	ьys	Ата	Leu	GTÀ		Thr	ser	Thr	СТУ		Arg	Met	GIU	ser	
	225		_			230			_		235					240
	Phe	Val	Asn	Ile		Met	Gln	Ala	Tyr	_	Ala	GLy	Gln	Thr		Leu
204					245					250					255	
207	Arg	Trp	Gly		Ile	Ala	Arg	Ser	Ser	Asn	Asn	Ile	Met		Gly	His
208				260					265					270		
211	Val	Ser	Val	Gln	Ala	Glu	Leu	Arg	Gln	Val	Ser	Glu	Val	Tyr	Asp	Leu
212			275					280					285			
215	Val	Arg	Lys	Met	Gly	Pro	Glu	Ser	Gly	Leu	Leu	His	Leu	Arg	Gln	Ser
216		290	_				295		_			300				
219	Pro	Lvs	Ala	Glv	Leu	Leu	Ser	Leu	Thr	Asn	Cvs	Pro	Asn	Phe	Ala	Ser
	305	- 2 -		- 2		310					315					320
		Val	Leu	Glv	Asn	Ala	Ala	Glv	Leu	Glv	Ile	Ile	Glv	Met	Tvr	Lvs
224			204	011	325			O= 1	200	330			0-1		335	1-
	Clu	λκα	Λla	Pro		Tou	Glu	T 011	Phe		Δla	Δla	Glu	Sar		Δla
228	Gry	ALG	пτα	340	ASII	пец	Giu	Бец	345	пια	пта	AΙα	OIU	350	1 1 1	ALG
	71	mb ~	T 011		C1	71 000	7 00	T		7.00	T 011	71-	71.		C1	Tou
	Arg	Thr		Arg	GIU	ASII	ASII	_	Ile	ASII	ьеи	Ата		ьeu	GTÀ	ьeu
232	<b>~</b> 1	_	355	~ 1	_	<b>~</b> 1	~ 3	360	m)	_	_	_	365	<b>~</b> 1	_	_
	Thr	_	Asp	GLu	Arg	GIU		Ата	Thr	Ser	Tyr		СТА	GTÄ	Asp	Asp
236		370	_	_	_		375					380				
		Arg	Ser	Ser	гуs		GLu									
	385					390										
243	<210	)> SI	EQ II	ON C	: 3											
244	<21	l> Li	ENGT	H: 39	91											
245	<212	2> T	YPE:	PRT												
246	<213	3> OI	RGAN	ISM:	Avia	an pr	neumo	oviru	ıs B							
248	<400	)> SI	EQUE	NCE:	3											
250	Met	Ser	Leu	Glu	Ser	Ile	Arg	Leu	Ser	Asp	Leu	Glu	Tyr	Lys	His	Ala
251					5		,			10			-	-	15	
		Leu	Asp	Glu	Ser	Gln	Tvr	Thr	Ile		Ara	Asp	Val	Glv		Thr
255			r	20			- 1 -		25	9	5	I-		30		
	Thr	Δla	Tle		Pro	Ser	Glu	Len	Gln	Pro	T.v.c	Val	Ser		T.e.i	Cvs
259	1111	та	35	1111	110	061	U L U	40	0111	110	כעם	vaı	45	1111	Leu	CYS
	C1	Mo+		T 011	Dha	λ1 -	Tura		תות	7\ ~~	Ф.,~	C111		7/1 ~	תות	G1 ~
	GТЙ		тте	neu	rne	HIG	_	пта	Ala	нзр	тÀт		ETO	HTq	HIG	GTII
263	77. 3	50	<b>N</b> ( )	<b>0.</b> 3	m- ·	T 7 -	55	mı.	n	т.,	<b>01</b> -	60	70	т	m1	C1-
266	val	GTA	Met	GIn	Tyr	тте	ser	Inr	Ala	ren	GTÀ	ΑΙΑ	Asp	ьys	Tnr	GTD

RAW SEQUENCE LISTING DATE: 02/02/2005
PATENT APPLICATION: US/10/722,045A TIME: 16:10:49

Input Set : E:\7682108999-2.txt

267	65					70					75					80
	Gln	T۱۵	T.e.11	Lvs	Ser		Glv	Ser	Glu	Val		Glv	Val	Met	Thr	
271	0111	110	пса	цуо	85	001	O <sub>L</sub> y	DCI	O.L.u	90	0111	O <sub>T</sub> y	• • •		95	2,0
	Ile	Val	Thr	T.e.11		Ala	Glu	Glv	Pro		Ara	Lvs	Ara	Glu		Len
275	110	Val	1111	100	110	1114	Olu	Ory	105	110	my	цуз	1119	110	vui	БСС
	Asn	ΤlΔ	Hie		T۱۵	Glv	Pro	Δla		Δla	Asn	Δsn	Val		Ara	Thr
279	ASII	116	115	лэр	110	ОТУ	110	120	тър	ALG	пор	AJII	125	OIU	1119	1111
	Ala	λνα		Thr	Mot	Sor	Len		Wal	Luc	Glu	Luc		Gln	Tla	Pro
283		130	Giu	1111	1100	OCI	135	1100	Vai	цуз	Oiu	140	mu	0111	110	110
	Lys		Gln	Tuc	Dro	Sar		Tau	Acn	λla	Dro		Tlo	Ī.a.ı	T.011	Cve
	145	ASII	GIII	шуз	110	150	AIG	пса	лэр	nia	155	vai	110	пса	пси	160
	Ile	Glv	Δl =	T.011	Tlo		Thr	T.ve	T.011	Δla		Thr	Val	Glu	Val	
291	116	СТУ	лта	пец	165	1116	1111	цуз	пец	170	SCI	1111	Val	OIU	175	O.L.y
	Leu	Glu	Thr	Δla		Δra	Ara	Δla	Sar		Val	Len	Ser	Asn		Tle
295		Giu	1111	180	116	Arg	ALG	пла	185	Arg	Vai	пси	SCI	190	mu	110
	Ser	Λνα	Тиг		Ara	Mot	Aen	Tla		Ara	T۱۵	Δla	T.ve		Pho	Phe
299		Arg	195	110	hry	ricc	пор	200	110	nra	110	1114	205	DCI	1110	, 110
	Glu	Lau		Glu	Luc	T.ve	Val		Фur	Δra	Δen	T.011		Tle	Glu	Tur
303		210	1116	GIU	цуз	цуз	215	ıyı	ıyı	mrg	11011	220	1110	110	OIU	- y -
	Gly		7\1 a	Τ.Δ.1	Glv	Sar		Ser	Sar	Clv	Sar		Met	Glu	Ser	Len
	225	шуз	пла	пеа	СТУ	230	1111	SCI	Der	СГА	235	nrg	1100	Oru	501	240
	Phe	Val.	Δsn	Tle	Phe		Gln	Δla	Tur	Glv		Glv	Gln	Thr	Met	
311		Val	ASII	110	245	1100	OIII	AΙα	1 <b>y</b> L	250	пια	Ory	OIII	1111	255	шси
	Arg	Δra	Glv	Val		Δla	Ara	Ser	Ser		Asn	Tle	Met	Len		His
315	my	mrg	OLY	260	Val	mu	1119	DCI	265	11011	71011	110	1100	270	OL1	1110
	Val	Ser	Val		Δla	Glu	T.e.ii	Δrα		Val	Ser	Glu	Val		Asp	Len
319		DCI	275	OIII	mu	OIU	пса	280	OIII	Val	DCI	Oiu	285	- y -	пор	Lou
	Val	Δra		Met	Glv	Pro	Glu		Glv	T.e.ii	T.e.u	His		Ara	Gln	Ser
323		290	Lys	1100	O.1 y	110	295	DCI	O <sub>±</sub> y	ncu.	шоч	300	Lou	•••	0111	501
	Pro		Ala	Glv	Len	Len		Len	Thr	Ser	Cvs		Asn	Phe	Ala	Ser
	305			0-1		310					315					320
	Val	Val	Leu	Glv	Asn		Ala	Glv	Leu	Glv		Ile	Glv	Met	Tvr	
331				1	325					330		-			335	-
	Gly	Ara	Ala	Pro		Leu	Glu	Leu	Phe	Ser	Ala	Ala	Glu	Ser	Tvr	Ala
335	_	,		340					345					350	-	
	Arg	Ser	Leu	Lys	Glu	Ser	Asn	Lys	Ile	Asn	Leu	Ala	Ala	Leu	Gly	Leu
339	_		355	-				360					365		-	
	Thr	Glu	Asp	Glu	Arq	Glu	Ala	Ala	Thr	Ser	Tyr	Leu	Gly	Gly	Asp	Glu
343		370	-		_		375				-	380	-	_	_	
346	Asp		Ser	Gln	Lys	Phe	Glu									
	385	4			-	390										
350	<21	0> SI	EO II	ON C	: 4											
	<21															
	52 <212> TYPE: PRT															
	53 <213> ORGANISM: Avian pneumovirus C															
	<40					-										
357						т1 -	C1 ~	T 011	Com	7\	T 011	C ~ ~	Tur	Two	uic	717
	Met	ser	ьeu	GIN	GLY	тте	GIII	ьeu	ser	ASP	ьeu	Ser	1 Y L	பழக	HTS	мла
358		ser	ьeu	GIN	<u>Бту</u>	тте	GIII	ьeu	ser	Asp 10	ьеи	Ser	ıyı	цуз	15	мта

RAW SEQUENCE LISTING DATE: 02/02/2005 PATENT APPLICATION: US/10/722,045A TIME: 16:10:49

Input Set : E:\7682108999-2.txt

362				20					25					30		
365	Thr	Ala	Val	Thr	Pro	Ser	Ser	Leu	Gln	Arq	Glu	Val	Ser	Leu	Leu	Cys
366			35					40		_			45			_
369	Gly	Glu	Ile	Leu	Tyr	Ala	Lys	His	Thr	Asp	Tyr	Ser	His	Ala	Ala	Glu
370	-	50			-		55			_	_	60				
373	Val	Gly	Met	Gln	Tyr	Val	Ser	Thr	Thr	Leu	Gly	Ala	Glu	Arg	Thr	Gln
374		-			-	70					75			_		80
377	Gln	Ile	Leu	Lys	Asn	Ser	Gly	Ser	Glu	Val	Gln	Ala	Val	Leu	Thr	Lys
378				-	85		_			90					95	-
381	Thr	Tyr	Ser	Leu	Gly	Lys	Gly	Lys	Asn	Ser	Lys	Gly	Glu	Glu	Leu	Gln
382		-		100	*	_	-	-	105		-	-		110		
	Met	Leu	Asp	Ile	His	Gly	Val	Glu	Arg	Ser	Trp	Ile	Glu	Glu	Val	Asp
386			115			_		120	-		•		125			-
389	Lvs	Glu	Ala	Arq	Lvs	Thr	Met	Ala	Ser	Ala	Thr	Lys	Asp	Asn	Ser	Gly
390	1	130			-		135					140	•			_
	Pro	Ile	Pro	Gln	Asn	Gln	Ara	Pro	Ser	Ser	Pro	Asp	Ala	Pro	Ile	Ile
	145					150					155	•				160
397	Leu	Leu	Cvs	Ile	Glv	Ala	Leu	Ile	Phe	Thr	Lvs	Leu	Ala	Ser	Thr	Ile
398			- 4		165					170	-				175	
	Glu	Val	Glv	Leu	Glu	Thr	Ala	Val	Arq	Arq	Ala	Asn	Arq	Val	Leu	Asn
402			- 1	180					185	,			_	190		
405	Asp	Ala	Leu	Lvs	Arg	Phe	Pro	Arg	Ile	Asp	Ile	Pro	Lys	Ile	Ala	Arg
406			195	-	,			200		•			205			-
409	Ser	Phe	Tvr	Asp	Leu	Phe	Glu	Gln	Lys	Val	Tyr	Tyr	Arq	Ser	Leu	Phe
410		210	-	•			215		•		-	220	_			
413	Ile	Glu	Tyr	Gly	Lys	Ala	Leu	Gly	Ser	Ser	Ser	Thr	Gly	Ser	Lys	Ala
	225		-	-	-	230		-			235		_		-	240
417	Glu	Ser	Leu	Phe	Val	Asn	Ile	Phe	Met	Gln	Ala	Tyr	Gly	Ala	Gly	Gln
418					245					250					255	
421	Thr	Met	Leu	Arg	Trp	Gly	Val	Ile	Ala	Arg	Ser	Ser	Asn	Asn	Ile	Met
422				260					265					270		
425	Leu	Gly	His	Val	Ser	Val	Gln	Ala	Glu	Leu	Lys	Gln	Val	Thr	Glu	Val
426			275					280					285			
429	Tyr	Asp	Leu	Val	Arg	Glu	Met	Gly	Pro	Glu	Ser	Gly	Leu	Leu	His	Leu
430		290					295					300				
433	Arg	Gln	Asn	Pro	Lys	Ala	Gly	Leu	Leu	Ser	Leu	Ala	Asn	Cys	${\tt Pro}$	Asn
434	305					310					315					320
437	Phe	Ala	Ser	Val	Val	Leu	Gly	Asn	Ala	Ser	Gly	Leu	Gly	Ile	Leu	Gly
438					325					330					335	
441	Met	Tyr	Arg	Gly	Arg	Val	Pro	Asn	Thr	Glu	Leu	Phe	Ala	Ala	Ala	Glu
442				340					345					350		
445	Ser	Tyr	Ala	Arg	Ser	Leu	Lys	Glu	Ser	Asn	Lys	Ile	Asn	Phe	Ser	Ser
446			355					360					365			
449	Leu	Gly	Leu	Thr	Glu	Glu	Glu	Lys	Glu	Ala	Ala	Glu	Asn	Phe	Leu	Asn
450		370					375					380				
	Ile	Asn	Glu	Glu	Gly	Gln	Asn	Asp	Tyr	Glu						
454	385					390										
457	<210	O> SE	EQ II	ON C	: 5											
458	<213	l> LE	ENGT	H: 39	91											

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 02/02/2005 PATENT APPLICATION: US/10/722,045A TIME: 16:10:50

Input Set : E:\7682108999-2.txt

Output Set: N:\CRF4\02022005\J722045A.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:105; Xaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:105; Xaa Pos. 29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47
Seq#:105; Xaa Pos. 48
Seq#:106; Xaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Seq#:106; Xaa Pos. 23,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47
Seq#:106; Xaa Pos. 48
Seq#:133; N Pos. 6
Seq#:135; N Pos. 6,9
Seq#:138; N Pos. 6
Seq#:142; N Pos. 10,19
Seq#:143; N Pos. 17
```

## Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

```
Seq#:101,102,103,104,107,108,109,110,111,112,113,114,115,116,117,118,119,120
Seq#:121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137,138
Seq#:139,140,141,142,143,144,145,146,147,148,149,150,151,152,153,154,155,156
Seq#:157,158,159,160,161,162,163,164,165,172
```

## VERIFICATION SUMMARY

DATE: 02/02/2005 PATENT APPLICATION: US/10/722,045A TIME: 16:10:50

Input Set : E:\7682108999-2.txt

Output Set: N:\CRF4\02022005\J722045A.raw

L:6723 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:105 after pos.:0 M:341 Repeated in SeqNo=105 L:6757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:106 after pos.:0 M:341 Repeated in SeqNo=106 L:7100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:133 after pos.:0 L:7135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:135 after pos.:0 L:7177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138 after pos.:0 L:7236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142 after pos.:0 L:7254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143 after pos.:0